

Technical datasheet

PETG Economy

colorFabb

Date of issue: November 20th, 2023
Version: v1.0

Description

The colorFabb PETG Economy is a high quality 3D printing filament, available in various colors. The PETG Economy is an easy-to-print material, with exceptional layer-to-layer adhesion and low warping. This filament is a popular choice amongst those that require an easy-to-handle material with good mechanical performance.

Typical Properties

Mechanical Properties – 3D Printed

	Method	Value	Unit
Youngs Modulus	Tensile, ISO 527-1A	1900	MPa
Tensile Strength	Tensile, ISO 527-1A	50	MPa
Elongation at break	Tensile, ISO 527-1A	90	%
Flexural Modulus	Flexural, ISO 178	1000	MPa
Flexural Strength	Flexural, ISO 178	70	MPa
Impact Strength	Charpy Notch, ISO 179	4.7	kJ/m ²

Mechanical Properties – Injection Molded*

	Method	Value	Unit
Youngs Modulus	Tensile, ISO 527-1A	2000	MPa
Tensile Strength	Tensile, ISO 527-1A	50	MPa
Elongation at break	Tensile, ISO 527-1A	35	%
Flexural Modulus	Flexural, ISO 178	1800	MPa
Flexural Strength	Flexural, ISO 178	65	MPa
Izod Impact Strength	Izod Notch, ISO 179	107	J/m
Density	ISO 1183	1.28	g/cm ³

Thermal Properties*

	Method	Value	Unit
Glass Transition Temp.	DSC, ISO 11357	70	°C
Melting Temp.	DSC, ISO 11357	N/A	°C
Decomposition Temp.	TGA, ISO 11358	N/A	°C
Heat Deflection Temp.	HDT-B, ISO 75	65	°C
Melt Flow Index	MFI, (210°C/2.16 kg), ISO 1133-A	N/A	g/10min
Melt Flow Index	MFI, (190°C/1.16 kg), ISO 1133-A	N/A	g/10 min

*These results are obtained from the information provided by the supplier of the raw material

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Filament Specifications

	Unit		
Diameter	mm	1.75	2.85
Max. roundness deviation	mm	± 0.05	± 0.1
Net. Filament weight	g	750/2200/4500/8000	750/2200/4500/8000

Guideline for print settings

	Unit	
Nozzle Temp.	°C	235-255
Bed Temp.	°C	70-80
Bed / surface modification	-	-
Active cooling fan	%	75-100**
Print Speed	mm/s	30-50

Notes

The reported properties are an average of a batch of 3D specimens.

The specimens have been printed in XY plane, using 0.15 mm layer height, 100% infill, 0,4 mm nozzle, 245°C nozzle temperature and 70°C bed temperature.

** For the best aesthetics, printing with high fan speed is advised. For better mechanical performance and layer adhesion, printing with the least amount of cooling is requires.

Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing, and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.